

Setting up the server:

```
MINGW64:/C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes
micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/4-sharing_images (201804341_feature_activity04)
$ cd /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity04)
$ cd

micha@DESKTOP-MKIDJGL MINGW64 ~ (faq-content)
$ cd /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker run --rm -d --name apache -p 80:80 httpd:2.4
Unable to find image 'httpd:2.4' locally
2.4: Pulling from library/httpd
69692152171a: Pull complete
7284b4e0cc7b: Pull complete
3678b2d55ccd: Pull complete
aeb67982a725: Pull complete
06954f8169fd: Pull complete
Digest: sha256:48bae0ac5d0d75168f1c1282c0eb21b43302cb1b5c5dc9fa3b4a758ccfb36fe9
Status: Downloaded newer image for httpd:2.4
c89591552cc42ca895617c45cd1c2942da5c0a7fab90e04c31457a41f8382157

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker run --rm -d --name apache -p 80:80 httpd:2.4
docker: Error response from daemon: Conflict. The container name "/apache" is already in use by container "c89591552cc42ca895617c45cd1c2942da5c0a7fab90e04c31457a41f8382157". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ curl localhost
<html><body><h1>It works!</h1></body></html>

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker cp index.html apache:/usr/local/apache2/htdocs/

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker stop apache
apache

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker run --rm -d --name apache -p 80:80 httpd:2.4
1abd23d79959cafbe6dab782cc2b68d8766dd2d5479e94f2360744a786aa70

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ curl localhost
<html><body><h1>It works!</h1></body></html>

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ |
```

Managing volumes:

```
mingw64/C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes
micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker volume ls
DRIVER      VOLUME NAME

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker volume create myvolume
myvolume

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker volume rm myvolume
myvolume

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker volume ls
DRIVER      VOLUME NAME

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ |
```

Mounting volumes on containers:

```
micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker volume create httpd_htdocs
httpd_htdocs

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
b618e3e02f34d56f93b21c537da086c3cccf4e7e660aaf67b4b72512c40fbb2f

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker cp index.html apache:/usr/local/apache2/htdocs/

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker stop apache
apache

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
4e7013b20494c6e340f6b4274d70a9b00ca6202364b183924a158397714b65e4

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ curl localhost
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$ |
```

Mounting host directories on containers:

```
micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker run --rm -d --name apache -p 80:80 -v /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes:/usr/local/apache2/htdocs/ httpd:2.4
cbceab0f1b4694c76cc4efd93ab918f7efc6d991522c37ce75bcedd5993986af
docker: Error response from daemon: OCI runtime create failed: invalid mount {Destination:\Program Files\Git\usr\local\apache2\htdocs\ Type:bind Source:/run/desktop/mnt/host/c/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes;C Options:[rbind rprivate]}: mount destination \Program Files\Git\usr\local\apache2\htdocs\ not absolute: unknown.

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ docker run --rm -d --name apache -p 80:80 -v /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes:/usr/local/apache2/htdocs/ httpd:2.4
282ae07ef57e98233309b1e108fc7ba529b07c12cf24a66a80eea59de497c21a

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ curl localhost
<html><body><h1>It works so well in Docker omgggg!</h1></body></html>

micha@DESKTOP-MKIDJGL MINGW64 /C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes (201804341_feature_activity05)
$ |
```

For some reason the path for the mount destination displayed errors so I changed the format of the paths to match the OS of where it was coming from (Windows path format) by adding a colon (:) after the C in

/C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes to make it

/C:/Users/micha/OneDrive/Documents/GitHub/ME8_Containerization_and_Docker/5-volumes and it worked.